1 What is claimed is: 2 A method of testing a video display device at a remote site using internally 3 generated test patterns, said method comprises: 4 receiving a request for service on a video display device from an end user at a 5 remote site: 6 providing an access code to the end user at the remote site to initiate a video 7 display test on the video display device using information stored inside the video display 8 device: receiving reports from the end user at the remote site; and 9 10 diagnosing on a functionality of the video display device based on the reports 11 received from the end user 12 The method of claim 1, wherein the video display device is connected to a system, 13 further comprising: 14 initiating a diagnostic procedure for detecting malfunction occurred outside the 15 video display device. 16 3. A method for testing a video display device using internally generated test 17 patterns, the method comprising: 18 contacting a service center to obtain a test code. 19 entering the test code from a keypad on a video display device to initiate a visual 20 test that displays a plurality of video display test patterns on a video display screen using 21 information stored inside the video display device: 22 examining each video display test pattern to generate an evaluation; 23 reporting the evaluation to the service center; and 24 receiving a diagnosis from the service center. 25 4. The method of claim 3, further comprising: 26 adjusting the video display device based on the diagnosis. 27 5 The method of claim 3, wherein the video display device is connected to a system, 28 further comprising 29 executing a diagnostic procedure to locate a malfunctioned component in the 30 system.

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33 a video display screen:

34 a memory that stores information for a video display test program;

A self-testing video display device, comprising:

- 1 a processor that extracts the information for video display test program from the
- 2 memory, converts the information into video display test signals, and executes the video
- 3 display test program;
- 4 a controller that sends the video display test signals in a proper format to the video
- 5 display screen.
- 6 7. The self-testing video display device according to claim 6, further comprising an
- 7 application specific integrated circuit (ASIC), wherein the memory, processor and
- 8 controller are located on the ASIC.
- 9 8. The self-testing video display device according to claim 7, further comprising a
- 10 video processing unit, wherein the ASIC and the connector are located in the video
- 11 processing unit.
- 12 9. The self-testing video display device according to claim 6, wherein the
- 13 the keypad is located on a surface of the video display device.
- 14 10. The self-testing video display device according to claim 6, further comprising a
- 15 connector that delivers an input signal to the processor.
- 16 11. The self-testing video display device according to claim 6, wherein the memory is
- 17 chosen from a list consisting of ROM, DRAM, SRAM, and VRAM.
- 18 12. The self-testing video display device according to claim 6, wherein the
- 19 information for the video display test program comprises test pattern information and
- 20 instructions for executing the video display test program.
- 21 13. The self-testing video display device according to claim 12, wherein the
- 22 information for the video display test program further comprises information for a
- 23 diagnostic procedure.
- 24 14. The self-testing video display device according to claim 6, wherein the video
- 25 display screen is a liquid crystal display screen, an organic light emitting display screen, a
- 26 fluorescent display screen, or a plasma display screen.